

## STIC Biotechnology Systems Branch

### RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/526,584  
Source: PCT  
Date Processed by STIC: 3-13-05

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses.

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - cPAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05

# Raw Sequence Listing Error Summary

## ERROR DETECTED

## SUGGESTED CORRECTION

SERIAL NUMBER: 10/526/84

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was received in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.

3 Misaligned Amino Numbering The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4 Non-ASCII The submitted file was not saved in ASCII(DOS)ical, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6 PatentIn 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s). Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

7 Skipped Sequences (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:  
(2) INFORMATION FOR SEQ ID NO X (insert SEQ ID NO where "X" is shown)  
(1) SEQUENCE CHARACTERISTICS (Do not insert any subheadings under this heading)  
(11) SEQUENCE DESCRIPTION SEQ ID NO X (insert SEQ ID NO where "X" is shown)  
This sequence is intentionally skipped

Please also adjust the "(11) NUMBER OF SEQUENCES" response to include the skipped sequences.

8 Skipped Sequences (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:  
<210> sequence id number  
<400> sequence id number  
000

9 Use of n's or Xaa's (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10 Invalid <213> Response Per 1.823 of Sequence Rules, the only valid <213> responses are Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or Artificial Sequence.

11 Use of <220> Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:  
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown". Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 0001/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

12 PatentIn 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13 Misuse of n/Xaa "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid.



PCT

## RAW SEQUENCE LISTING

DATE: 03/13/2005

PATENT APPLICATION: US/10/526,584

TIME: 12:10:19

Input Set : A:\AsFiled.ST25.txt

Output Set: N:\CRF4\03132005\J526584.raw

3 <110> APPLICANT: University of South Florida  
 4 Mohapatra, Shyam  
 6 <120> TITLE OF INVENTION: Materials and Methods for Treatment of Allergic Diseases  
 8 <130> FILE REFERENCE: USF-183XC1  
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/526,584  
 C--> 10 <141> CURRENT FILING DATE: 2005-03-03  
 10 <150> PRIOR APPLICATION NUMBER: 60/319,529  
 11 <151> PRIOR FILING DATE: 2002-09-06  
 13 <150> PRIOR APPLICATION NUMBER: PCT/US2003/028056  
 14 <151> PRIOR FILING DATE: 2003-09-08  
 16 <160> NUMBER OF SEQ ID NOS: 17  
 18 <170> SOFTWARE: PatentIn version 3.2  
 20 <210> SEQ ID NO: 1  
 21 <211> LENGTH: 30  
 22 <212> TYPE: PRT  
 23 <213> ORGANISM: Homo sapiens  
 25 <400> SEQUENCE: 1  
 27 Asn Pro Met Tyr Asn Ala Val Ser Asn Ala Asp Leu Met Asp Phe Lys  
 28 1 5 10 15  
 31 Asn Leu Leu Asp His Leu Glu Glu Lys Met Pro Leu Glu Asp  
 32 20 25 30  
 35 <210> SEQ ID NO: 2  
 36 <211> LENGTH: 37  
 37 <212> TYPE: PRT  
 38 <213> ORGANISM: Homo sapiens  
 40 <400> SEQUENCE: 2  
 42 Glu Val Val Pro Pro Gln Val Leu Ser Glu Pro Asn Glu Glu Ala Gly  
 43 1 5 10 15  
 46 Ala Ala Leu Ser Pro Leu Pro Glu Val Pro Pro Trp Thr Gly Glu Val  
 47 20 25 30  
 50 Ser Pro Ala Gln Arg  
 51 35  
 54 <210> SEQ ID NO: 3  
 55 <211> LENGTH: 20  
 56 <212> TYPE: PRT  
 57 <213> ORGANISM: Homo sapiens  
 59 <400> SEQUENCE: 3  
 61 Ser Ser Asp Arg Ser Ala Leu Leu Lys Ser Lys Leu Arg Ala Leu Leu  
 62 1 5 10 15  
 65 Thr Ala Pro Arg  
 66 20  
 69 <210> SEQ ID NO: 4  
 70 <211> LENGTH: 28

Does Not Comply  
Corrected Diskette Needed

(pg.2)

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DATE: 03/13/2005

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TIME: 12:10:19

Input Set : A:\AsFiled.ST25.txt

Output Set : N:\CRF4\03132005\J526584.raw

71 <212> TYPE: PRT  
 72 <213> ORGANISM: Homo sapiens  
 74 <400> SEQUENCE: 4  
 76 Ser Leu Arg Arg Ser Ser Cys Phe Gly Gly Arg Met Asp Arg Ile Gly  
 77 1 5 10 15  
 80 Ala Gln Ser Gly Leu Gly Cys Asn Ser Phe Arg Tyr  
 81 20 25  
 84 <210> SEQ ID NO: 5  
 85 <211> LENGTH: 28  
 86 <212> TYPE: PRT  
 87 <213> ORGANISM: Artificial Sequence  
 89 <220> FEATURE:  
 90 <223> OTHER INFORMATION: NEED DESCRIPTION  
 92 <400> SEQUENCE: 5  
 94 Ser Pro Trp Asp Pro Ser Asp Arg Ser Ala Leu Leu Lys Ser Lys Leu  
 95 1 5 10 15  
 98 Arg Ala Leu Leu Ala Gly Pro Arg Ser Leu Arg Arg  
 99 20 25  
 102 <210> SEQ ID NO: 6  
 103 <211> LENGTH: 37  
 104 <212> TYPE: PRT  
 105 <213> ORGANISM: Artificial Sequence  
 107 <220> FEATURE:  
 108 <223> OTHER INFORMATION: NEED DESCRIPTION  
 110 <400> SEQUENCE: 6  
 112 Val Ser Asn Thr Asp Leu Met Asp Phe Lys Asn Leu Leu Asp His Leu  
 113 1 5 10 15  
 116 Glu Glu Lys Met Pro Val Glu Asp Glu Val Met Pro Pro Gln Ala Leu  
 117 20 25 30  
 120 Ser Glu Gln Thr Glu  
 121 35  
 124 <210> SEQ ID NO: 7  
 125 <211> LENGTH: 151  
 126 <212> TYPE: PRT  
 127 <213> ORGANISM: Homo sapiens  
 129 <400> SEQUENCE: 7  
 131 Met Ser Ser Phe Ser Thr Thr Thr Val Ser Phe Leu Leu Leu Leu Ala  
 132 1 5 10 15  
 135 Phe Gln Leu Leu Gly Gln Thr Arg Ala Asn Pro Met Tyr Asn Ala Val  
 136 20 25 30  
 139 Ser Asn Ala Asp Leu Met Asp Phe Lys Asn Leu Leu Asp His Leu Glu  
 140 35 40 45  
 143 Glu Lys Met Pro Leu Glu Asp Glu Val Val Pro Pro Gln Val Leu Ser  
 144 50 55 60  
 147 Glu Pro Asn Glu Glu Ala Gly Ala Ala Leu Ser Pro Leu Pro Glu Val  
 148 65 70 75 80  
 151 Pro Pro Trp Thr Gly Glu Val Ser Pro Ala Gln Arg Asp Gly Gly Ala  
 152 85 90 95  
 155 Leu Gly Arg Gly Pro Trp Asp Ser Ser Asp Arg Ser Ala Leu Leu Lys

PLS explain source of genetic material,

Invalid response

PLS explain source of genetic material.

Invalid response

See item #11 on error summary sheet.

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Input Set : A:\AsFiled.ST25.txt

Output Set: N:\CRF4\03132005\J526584.raw

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156          100          105          110
159 Ser Lys Leu Arg Ala Leu Leu Thr Ala Pro Arg Ser Leu Arg Arg Ser
160          115          120          125
163 Ser Cys Phe Gly Gly Arg Met Asp Arg Ile Gly Ala Gln Ser Gly Leu
164          130          135          140
167 Gly Cys Asn Ser Phe Arg Tyr
168 145          150
171 <210> SEQ ID NO: 8
172 <211> LENGTH: 35
173 <212> TYPE: DNA
174 <213> ORGANISM: Mus musculus
176 <400> SEQUENCE: 8
177 gacggcaagc ttactatggg cagcccctgg gaccc          35
180 <210> SEQ ID NO: 9
181 <211> LENGTH: 33
182 <212> TYPE: DNA
183 <213> ORGANISM: Mus musculus
185 <400> SEQUENCE: 9
186 acccccctcg agttattatc ttcttaggct ccg          33
189 <210> SEQ ID NO: 10
190 <211> LENGTH: 33
191 <212> TYPE: DNA
192 <213> ORGANISM: Mus musculus
194 <400> SEQUENCE: 10
195 aatcctaagc ttagtatggg gtccaacaca gat          33
198 <210> SEQ ID NO: 11
199 <211> LENGTH: 41
200 <212> TYPE: DNA
201 <213> ORGANISM: Mus musculus
203 <400> SEQUENCE: 11
204 tgcgaactcg agttactcag tctgctcact cagggcctgc g          41
207 <210> SEQ ID NO: 12
208 <211> LENGTH: 93
209 <212> TYPE: DNA
210 <213> ORGANISM: Mus musculus
212 <400> SEQUENCE: 12
213 atgggcagcc cctgggaccc ctccgataga tctgccctct tgaaaagcaa actgagggct          60
215 ctgctcgctg gccctcggag cctacgaaga taa          93
218 <210> SEQ ID NO: 13
219 <211> LENGTH: 117
220 <212> TYPE: DNA
221 <213> ORGANISM: Mus musculus
223 <400> SEQUENCE: 13
224 atggtgtcca acacagatct gatggatttc aagaacctgc tagaccacct ggaggagaag          60
226 atgccggtag aagatgaggt catgcccccg caggccctga gtgagcagac tgagtaa          117
229 <210> SEQ ID NO: 14
230 <211> LENGTH: 845
231 <212> TYPE: DNA
232 <213> ORGANISM: Homo sapiens

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Input Set : A:\AsFiled.ST25.txt

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234 &lt;400&gt; SEQUENCE: 14

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235 tggcgagggga cagacgtagg ccaagagagg ggaaccagag aggaaccaga ggggagagac      60
237 agagcagcaa gcagtggatt gtcctttgac gacgccagca tgagctcctt ctccaccacc      120
239 accgtgagct tcctcctttt actggcattc cagctcctag gtcagaccag agctaataccc      180
241 atgtacaatg ccgtgtccaa cgcagacctg atggatttca agaatttgct ggaccatttg      240
243 gaagaaaaga tgcctttaga agatgaggtc gtgccccac aagtgtcag tgagccgaat      300
245 gaagaagcgg gggctgctct cagccccctc cctgagggtg ctccctggac cggggaagtc      360
247 agcccagccc agagagatgg aggtgccctc gggcggggccc cctgggactc ctctgatcga      420
249 tctgccctcc taaaaagcaa gctgaggggc ctgctcactg cccctcggag cctgaggaga      480
251 tccagctgct tcgggggagc gatggacagg attggagccc agagcggact gggctgtaac      540
253 agcttccggg actgaagata acagccaggg aggacaagca gggctgggccc tagggacaga      600
255 ctgcaagagg ctctgtctcc ctgggggtctc tgcgtcattt gtgtcatctt gttgccatgg      660
257 agttgtgatc atcccatcta agctgcagct tcctgtcaac acttctcaca tcttatgcta      720
259 actgtagata aagtggtttg atggtgactt cctgcgctct cccaccccat gcattaaatt      780
261 ttaaggtaga acctcacctg ttactgaaag tggtttgaaa gtgaataaac ttcagcacca      840
263 tggac                                                                                   845

```

266 &lt;210&gt; SEQ ID NO: 15

267 &lt;211&gt; LENGTH: 2583

268 &lt;212&gt; TYPE: DNA

269 &lt;213&gt; ORGANISM: Homo sapiens

271 &lt;400&gt; SEQUENCE: 15

```

272 ggatccattt gtctcgggct gctggctgcc tgccatttcc tcctctccac ccttatttgg      60
274 aggccctgac agctgagcca caaacaacc aggggagctg ggcaccagca agcgtcacc      120
276 tctgtttccc cgcacggtac cagcgtcgag gagaaagaat cctgaggcac ggcggtgaga      180
278 taaccaagga ctctttttta ctctctcac acctttgaag tgggagcctc ttgagtcaaa      240
280 tcagtaagaa tgcggctctt gcagctgagg gtctgggggg ctggtggggc tgcccaaggc      300
282 agagagggggc tgtgacaagc cctgcggatg ataactttaa aagggcattc cctgctggct      360
284 tctcacttgg cagctttatc actgcaagtg acagaatggg gagggttctg tctctcctgc      420
286 gtgcttggag agctgggggg ctataaaaag aggcggcact gggcagctgg gagacaggga      480
288 cagacgtagg ccaagagagg ggaaccagag aggaaccaga ggggagagac agagcagcaa      540
290 gcagtggatt gtcctttgac gacgccagca tgagctcctt ctccaccacc accgtgagct      600
292 tcctcctttt actggcattc cagctcctag gtcagaccag agctaatacc atgtacaatg      660
294 ccgtgtccaa cgcagacctg atggatttca aggtagggccc aggaaagcgg gtgcagtctg      720
296 gggccagggg gctttctgat gctgtgctca ctctcttga ttctctccaa gtcagtgagg      780
298 tttatccctt tcctgtatt ttcttttct aaagaatttg ctggaccatt tggaagaaaa      840
300 gatgccttta gaagatgagg tcgtgcccc acaagtgtc agtgagccga atgaagaagc      900
302 gggggctgct ctacgcccc tcctgaggt gcctccctgg accggggaag tcagccagc      960
304 ccagagagat ggaggtgccc tcgggggggg cccctgggac tcctctgac gatctgacct      1020
306 cctaaaaagc aagctgaggg cgctgctcac tgccccctcg agcctgcgga gatccagctg      1080
308 ctctcggggg aggatggaca ggattggagc ccagagcgga ctgggctgta acagcttccg      1140
310 ggtaagagga actggggatg gaaatgggat gggatggaca ctactgggag acaccttcag      1200
312 caggaaaggg accaatgcag aagctcattc cctctcaagt ttctgcccc acaccagag      1260
314 tgccccatgg gtgtcaggac atgccatcta ttgtccttag ctagtctgct gagaaaatgc      1320
316 ttaaaaaaaa aagggggggg gctgggcacg gtgcgcacgc ctgtaatccc agcactttgg      1380
318 gaggccaggc agcggatcat gaggtcaaga gatcaagact atcctggcca acatggtgaa      1440
320 accccagctc tactaaaaat acaaaaatta gctgggtgtg tggcgggcac ctgtactctc      1500
322 agctacttgg gaggtgagg caggagaatc acttgaaccc aggaggcaga gggtgcaagt      1560
324 agcagagatc acgccactgc agtccagcct aggtgataga gcgagactgt ctcaaaaaaa      1620
326 aaaaaaaaaa gccaggcgcg gtggctcacg cctgtaatcc cagcgctttg ggaggccaag      1680

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TIME: 12:10:19

Input Set : A:\AsFiled.ST25.txt

Output Set: N:\CRF4\03132005\J526584.raw

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328 gcggttgat cactgaggtca ggagatggag accatcctgg ctaacacggt gaaaccccg 1740
330 ctctactaaa aatacaaaaa attagccagg cgtggtggca ggcgcctgta agtcctagct 1800
332 actccggagg ctgaggcagg agaattggcg gaaccggga ggcggagctt gcagttagca 1860
334 gagatggcac cactgcactc cagcctgggc gacagagcaa gactccgtct caaaaaaaaa 1920
336 aaaaaaaaaa gcaactgcca ctagcactgg gaaattaaaa tattcataga gccaaagtat 1980
338 ctttgcattg ctgattagca gttcatattc ctccccagaa ttgcaagatc ctgaagggtc 2040
340 taagtgaat ttactctgat gagtaacttg cttatcaatt catgaagctc agagggtcat 2100
342 caggctgggg tgggggcccgg tgggaagcag gtggtcagta atcaagttca gaggatgggc 2160
344 acactcatac atgaagctga cttttccagg acagccaggc caccaagcca gatatgtctg 2220
346 tgttctcttt gcagtactga agataacagc caggaggagc aagcagggtc gggcctaggg 2280
348 acagactgca agaggctcct gtcccctggg gtctctgctg catttgtgtc atcttgttgc 2340
350 catggagttg tgatcatccc atctaagctg cagcttcctg tcaacacttc tcacatctta 2400
352 tgctaactgt agataaagtg gtttgatggg gacttcctcg cctctcccac cccatgcatt 2460
354 aaattttaag gtagaacctc acctgttact gaaagtgggt tgaaagtga taaacttcag 2520
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358 ttc

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361 &lt;210&gt; SEQ ID NO: 16

362 &lt;211&gt; LENGTH: 152

363 &lt;212&gt; TYPE: PRT

364 &lt;213&gt; ORGANISM: Mus musculus

366 &lt;400&gt; SEQUENCE: 16

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368 Met Gly Ser Phe Ser Ile Thr Leu Gly Phe Phe Leu Val Leu Ala Phe
369 1 5 10 15
372 Trp Leu Pro Gly His Ile Gly Ala Asn Pro Val Tyr Ser Ala Val Ser
373 20 25 30
376 Asn Thr Asp Leu Met Asp Phe Lys Asn Leu Leu Asp His Leu Glu Glu
377 35 40 45
380 Lys Met Pro Val Glu Asp Glu Val Met Pro Pro Gln Ala Leu Ser Glu
381 50 55 60
384 Gln Thr Glu Glu Ala Gly Ala Ala Leu Ser Ser Leu Pro Glu Val Pro
385 65 70 75 80
388 Pro Trp Thr Gly Glu Val Asn Pro Pro Leu Arg Asp Gly Ser Ala Leu
389 85 90 95
392 Gly Arg Ser Pro Trp Asp Pro Ser Asp Arg Ser Ala Leu Leu Lys Ser
393 100 105 110
396 Lys Leu Arg Ala Leu Leu Ala Gly Pro Arg Ser Leu Arg Arg Ser Ser
397 115 120 125
400 Cys Phe Gly Gly Arg Ile Asp Arg Ile Gly Ala Gln Ser Gly Leu Gly
401 130 135 140
404 Cys Asn Ser Phe Arg Tyr Arg Arg
405 145 150

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408 &lt;210&gt; SEQ ID NO: 17

409 &lt;211&gt; LENGTH: 878

410 &lt;212&gt; TYPE: DNA

411 &lt;213&gt; ORGANISM: Mus musculus

413 &lt;400&gt; SEQUENCE: 17

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414 caaaagctga gagagagaga gaaagaaacc agagtgggca gagacagcaa acatcagatc 60
416 gtgccccgac ccacgccagc atgggctcct tctccatcac cctgggcttc ttccctcgtc 120
418 tggccttttg gcttcaggc catattggag caaatcctgt gtacagtgcg gtgtccaaca 180

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/526,584

DATE: 03/13/2005

TIME: 12:10:20

Input Set : A:\AsFiled.ST25.txt

Output Set: N:\CRF4\03132005\J526584.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date